AMENDMENTS TO THE CLAIMS

Claims 1-30 are pending in the instant application. The Applicant has amended claims 1-4, 6-8, 11-14, 16-18 and 21-24 and 26-28 to further clarify the claim language without adding new matter. The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

Listing of claims:

1. (Currently Amended) A method for encoding and decoding video and non-video information, the method comprising:

creating a ~~second~~ first symbol from a ~~first~~ codeword;

generating ~~at least~~ one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said ~~second~~ first symbol if said ~~at least~~ one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said ~~first~~ codeword from at least a portion of a ~~third~~ second symbol if said ~~third~~ second symbol is at least a portion of a received signal.

2. (Currently Amended) The method according to claim 1, ~~further~~ comprising TMDS encoding of at least a portion of said ~~first~~ codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

3.   (Currently Amended) The method according to claim 2, ~~further~~ comprising TMDS encoding of at least a portion of said ~~second~~ first symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

4.   (Currently Amended) The method according to claim 3, ~~further~~ comprising TMDS encoding of at least a portion of said ~~second~~ first symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

5.   (Cancelled)

6.   (Currently Amended) The method according to claim 1, ~~further~~ comprising TMDS decoding of said at least a portion of said received signal to generate said ~~first~~ codeword.

7.   (Currently Amended) The method according to claim 6, ~~further~~ comprising TMDS decoding of said at least a portion of said received signal comprising said ~~third~~ second symbol to generate said ~~second~~ first symbol.

8.   (Currently Amended) The method according to claim 7, ~~further~~ comprising decoding of said at least a portion of said ~~second~~ first symbol to generate said ~~first~~ codeword.

9.   (Cancelled)

10.   (Cancelled)

11.   (Currently Amended) A machine-readable storage having stored thereon, a computer program having at least one code section for encoding and decoding video and non-video information, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

creating a ~~second~~ first symbol from a ~~first~~ codeword;

generating ~~at least~~ one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said ~~second~~ first symbol if said ~~at least~~ one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said ~~first~~ codeword from at least a portion of a ~~third~~ second if said ~~third~~ second symbol is at least a portion of a received signal.

12.   (Currently Amended) The machine-readable storage according to claim 11, ~~further~~ comprising code for TMDS encoding of at least a portion of said

~~first~~ codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

13.   (Currently Amended) The machine-readable storage according to claim 12, ~~further~~ comprising code for TMDS encoding of at least a portion of said ~~second~~ first symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

14.   (Currently Amended) The machine-readable storage according to claim 13, ~~further~~ comprising code for TMDS encoding of at least a portion of said ~~second~~ first symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

15.   (Cancelled)

16.   (Currently Amended) The machine-readable storage according to claim 11, ~~further~~ comprising code for TMDS decoding of said at least a portion of said received signal to generate said ~~first~~ codeword.

17.   (Currently Amended) The machine-readable storage according to claim 16, ~~further~~ comprising code for TMDS decoding of said at least a portion of

said received signal comprising said ~~third~~ second symbol to generate said ~~second~~ first symbol.

18.   (Currently Amended) The machine-readable storage according to claim 17, ~~further~~ comprising code for decoding of said at least a portion of said ~~second~~ first symbol to generate said ~~first~~ codeword.

19.   (Cancelled)

20.   (Cancelled)

21.   (Currently Amended) A system for encoding and decoding video and non-video information, the system comprising:

a first encoder adapted to encode a ~~first~~ codeword to a ~~second~~ first symbol;

a second encoder adapted to generate ~~at least~~ one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said ~~second~~ first symbol if said ~~at least~~ one or more said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

a first decoder adapted to generate said ~~first~~ codeword from at least a portion of a ~~third~~ <u>second</u> symbol if said ~~third~~ <u>second</u> symbol is at least a portion of a received signal.

22.   (Currently Amended) The system according to claim 21, wherein said second encoder is adapted to TMDS encode at least a portion of said ~~first~~ codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

23.   (Currently Amended) The system according to claim 22, wherein said second encoder is adapted to TMDS encode at least a portion of said ~~second~~ <u>first</u> symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

24.   (Currently Amended) The system according to claim 23, wherein said second encoder is adapted to TMDS encode at least a portion of said ~~second~~ <u>first</u> symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

25.   (Cancelled)

26. (Currently Amended) The system according to claim 21, wherein said first decoder adapted to TMDS decode said at least a portion of said received signal to generate said ~~first~~ codeword.

27. (Currently Amended) The system according to claim 26, wherein said first decoder is adapted to TMDS decode said at least a portion of said received signal comprising said ~~third~~ second symbol to generate said ~~second~~ first symbol.

28. (Currently Amended) The system according to claim 27, wherein said first decoder is adapted to decode said at least a portion of said ~~second~~ first symbol to generate said ~~first~~ codeword.

29. (Cancelled)

30. (Cancelled)

31. (New) A method for encoding and decoding video and non-video information, the method comprising:

creating a first symbol from a codeword;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least

a portion of a transmitted signal, said TMDS encoding of at least a portion of said codeword to generate a TMDS symbol for said at least a portion of said transmitted signal, said TMDS encoding of at least a portion of said first symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal, said TMDS encoding of at least a portion of said first symbol to generate a guard band symbol for said at least a portion of said transmitted signal, wherein said TMDS encoding of at least said portion of said first symbol to generate said TERC4 symbol and said TMDS encoding of at least said portion of said first symbol to generate said guard band symbol further comprises encoding said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

32.   (New) A method for encoding and decoding video and non-video information, the method comprising:

creating a first symbol from a codeword, wherein said codeword is a 4-bit pre-TERC4 codeword;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of

said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

33.   (New) A method for encoding and decoding video and non-video information, the method comprising:

creating a first symbol from a codeword, wherein said first symbol is an 8-bit pre-TMDS symbol;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

34.   (New) A machine-readable storage having stored thereon, a computer program having at least one code section for encoding and decoding video and non-video information, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

creating a first symbol from a codeword;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal;

TMDS encoding of at least a portion of said codeword to generate a TMDS symbol for said at least a portion of said transmitted signal;

TMDS encoding of at least a portion of said first symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal;

TMDS encoding of at least a portion of said first symbol to generate a guard band symbol for said at least a portion of said transmitted signal, wherein said code for TMDS encoding of at least said portion of said first symbol to generate said TERC4 symbol and said code for TMDS encoding of at least said portion of said first symbol to generate said guard band symbol further comprises code for encoding said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

35.   (New) A machine-readable storage having stored thereon, a computer program having at least one code section for encoding and decoding

video and non-video information, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

creating a first symbol from a codeword, wherein said codeword is a 4-bit pre-TERC4 codeword;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

36.   (New)   A machine-readable storage having stored thereon, a computer program having at least one code section for encoding and decoding video and non-video information, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

creating a first symbol from a codeword, wherein said first symbol is an 8-bit pre-TMDS symbol;

generating one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

generating said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

37.   (New) A system for encoding and decoding video and non-video information, the system comprising:

a first encoder adapted to encode a codeword to a first symbol;

a second encoder adapted to generate one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal, wherein said second encoder is adapted to TMDS encode at least a portion of said codeword to generate a TMDS symbol for said at least a portion of said transmitted signal, said second encoder is adapted to TMDS encode at least a portion of said second symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal, said second encoder is adapted to TMDS encode at least a portion of said second symbol to generate a guard band symbol for said at least a portion of said transmitted signal, and said second encoder is adapted to TMDS encode said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal; and

a first decoder adapted to generate said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal

38.   (New) A system for encoding and decoding video and non-video information, the system comprising:

a first encoder adapted to encode a codeword to a first symbol, wherein said codeword is a 4-bit pre-TERC4 codeword;

a second encoder adapted to generate one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

a first decoder adapted to generate said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.

39.   (New) A system for encoding and decoding video and non-video information, the system comprising:

a first encoder adapted to encode a codeword to a first symbol, wherein said first symbol is an 8-bit pre-TMDS symbol;

a second encoder adapted to generate one or more of a TERC4 symbol, a TMDS symbol and/or a guard band symbol from at least a portion of said first symbol if said one or more of said TERC4 symbol, said TMDS symbol and/or said guard band symbol is at least a portion of a transmitted signal; and

a first decoder adapted to generate said codeword from at least a portion of a second symbol if said second symbol is at least a portion of a received signal.